IN THE CLAIMS

Please amend the claims as follows.

For the Examiner's convenience, a list of all claims is included below.

1. (Currently Amended) A device comprising:

a substrate that has a first conductivity region and recesses, wherein the recesses have [[a]] an ~~first~~ inwardly concaved geometry with ~~first~~ inflection points;

a gate dielectric formed on the first conductivity region of the substrate between the recesses;

a gate electrode formed on said gate dielectric, said gate electrode having a lower portion formed directly on said gate dielectric;

a pair of sidewall spacers formed along laterally opposite sidewalls of said gate electrode; and

a silicon or silicon alloy layer ~~deposited into~~ in the recesses [[to]] that form a pair of inwardly concaved source/drain regions of a second conductivity type having a concentration of impurities in a range of $1x10^{18}/cm^3$ to $3x10^{21}/cm^3$ on opposite sides of said gate electrode, wherein the source/drain regions have ~~a second~~ the inwardly concaved geometry with ~~second~~ the inflection points that is determined by the ~~first geometry~~ recesses creating metallurgical inflection points directly beneath said lower portion of said gate electrode formed directly on said gate dielectric layer, wherein said silicon or silicon alloy source/drain regions extend the greatest distance laterally beneath said lower portion of the gate electrode at said inflection points, which occurs between 50-250Å laterally beneath said gate electrode and at a depth of between 25-100Å beneath said gate dielectric, and directly define a first channel region having a first metallurgical channel length directly beneath said lower portion of said gate electrode in said first conductivity type region, and a second channel region

having a second metallurgical length between said metallurgical inflection points, wherein said first metallurgical channel length directly beneath said lower portion of said gate electrode is larger than said second metallurgical channel length between said metallurgical inflection points.

2. (Previously Presented) The device of claim 1 wherein said silicon or silicon alloy source/drain regions extend above said gate dielectric and wherein the top surface of said silicon or silicon alloy is spaced further from said gate electrode than the silicon or silicon alloy adjacent to said gate dielectric.

3. (Previously Presented) The device of claim 1 wherein said gate dielectric layer is thicker beneath outside edge of said gate electrode than the gate dielectric layer beneath the center of said gate electrode.

4. (Previously Presented) The device of claim 2 wherein said gate dielectric layer is thicker beneath said sidewall spacer and said outside edge of said gate electrode then the gate dielectric layer beneath the center of said gate electrode.

5. (Previously Presented) The device of claim 1 further comprising a pair of silicon or silicon alloy regions having a first conductivity type region formed between said pair of silicon or silicon alloy source/drain regions of said second conductivity type and said first conductivity type region.

6. (Previously Presented) The device of claim 5 wherein the concentration of said silicon or silicon alloy regions having a first conductivity type is greater than the concentration of said first conductivity type region.

7. (Canceled)

8. (Previously Presented) The device of claim 1 wherein said first conductivity type is n-type conductivity and wherein said second conductivity type is p-type conductivity.

9. (Previously Presented) The device of claim 1 wherein said first conductivity type is p-type conductivity and wherein said second conductivity type is n-type conductivity.

10. (Canceled)

11. (Previously Presented) The device of claim 1 wherein the concentration of said silicon or silicon alloy source/drain regions of a second conductivity type is approximately $1x10^{21}/cm^3$.

12. (Previously Presented) The device of claim 1 further comprising silicide formed on said silicon or silicon alloy source/drain regions.

13. (Currently Amended) A device comprising:

a substrate that has a first conductivity region and recesses, wherein the recesses have [[a]] an ~~first~~ inwardly concaved geometry with ~~first~~ inflection points;

a gate dielectric formed on the first conductivity type region of the substrate between the recesses;

a gate electrode formed on said gate dielectric, said gate electrode having a lower portion formed directly on said gate dielectric;

a pair of sidewall spacers formed along laterally opposite sidewalls of said gate electrode; and

a silicon-germanium alloy layer ~~deposited into~~ in the recesses [[to]] that form a pair of source/drain regions having a concentration of impurities of second conductivity type in a range of $1x10^{18}/cm^3$ to $3x10^{21}/cm^3$ along opposite sides of said gate electrode wherein said silicon-germanium alloy source/drain regions in said recesses in said substrate have ~~a second~~ the inwardly concaved geometry with ~~second~~ the inflection points that is determined by the ~~first geometry~~ recesses that creates metallurgical inflection points in said substrate directly beneath said lower portion of said gate electrode formed directly on said gate dielectric, wherein said silicon-germanium alloy source/drain regions extend the greatest distance laterally beneath said gate electrode at said inflection points which occurs between 50-250Å laterally beneath said gate electrode and at a depth of between 25-100Å beneath said gate dielectric, said silicon germanium alloy extends above the height of said gate dielectric layer wherein the top surface of said deposited silicon-germanium alloy is spaced further from said gate electrode than said silicon-germanium alloy adjacent to said gate dielectric.

14. (Previously presented) The device of claim 13 wherein said gate dielectric layer is thicker beneath said outside edges of said gate electrode then the gate dielectric beneath the center of the gate electrode.

15. (Currently Amended) A device comprising:

a substrate that has a first conductivity region and recesses, wherein the recesses have [[a]] an ~~first~~ inwardly concaved geometry with ~~first~~ inflection points;

a gate dielectric formed on the first conductivity type region of the substrate between the recesses;

a gate electrode formed on said gate dielectric, said gate electrode having a lower portion formed directly on said gate dielectric;

a pair of sidewall spacers formed along laterally opposite sidewalls of said gate electrode; and

a silicon-germanium alloy layer ~~deposited into~~ in the recesses [[to]] that form a pair of inwardly concaved source/drain regions of a second conductivity type having a concentration of impurities in a range of $1x10^{18}/cm^3 - 3x10^{21}/cm^3$ at opposite sides of said gate electrode, wherein the source/drain regions have ~~a second~~ the inwardly concaved geometry with ~~second~~ the inflection points that is determined by the ~~first geometry~~ recesses creating metallurgical inflection points directly beneath said lower portion of said gate electrode formed directly on said gate dielectric layer and defining a first channel region having a first metallurgical channel length directly beneath said lower portion of said gate electrode in said first conductivity type region, and a second channel region having a second metallurgical length between said metallurgical inflection points, wherein said first metallurgical channel length directly beneath said lower portion of said gate electrode is larger than said second metallurgical channel length between said metallurgical inflection points.